



Please amend Claims 1, 4, 5, 10, 16-17, 20 and 23; delete Claims 3, 15, 19, 22 and 24, and add new Claims 29-31 as follows:

1. (Currently Amended) An antenna, comprising:
 - a ground plane having an upper surface and an opposing lower surface;
 - a plurality of dipoles extending outwardly from the upper surface;
 - a set of feedlines disposed proximate the upper surface and coupled to the dipoles;
 - a set of striplines disposed upon the lower surface and coupled through the ground plane to the set of feedlines, wherein the set of striplines have a plurality of serpentine portions each having a respective said dielectric member slidingly disposed thereupon; and
 - at least one sliding dielectric member adjustably disposed proximate a portion of the set of striplines and adapted to shift a phase velocity of a signal communicating therepast to the dipoles.
2. (Original) The antenna as specified in Claim 1 wherein the dipoles are configured in sets, each of the dipole sets having a single respective feedline coupled thereto.
3. Canceled
4. (Currently Amended) The antenna as specified in Claim 2 wherein the dipoles are configured in pairs of orthogonal dipoles and the ~~first~~ set of feedlines comprise a divider.
5. (Currently Amended) The antenna as specified in Claim 1 further comprising an electrically non-conductive member disposed between the ground plane and the ~~second~~ set of striplines.

6. (Original) The antenna as specified in Claim 5 wherein the set of striplines are disposed on the electrically non-conductive member.

7. (Original) The antenna as specified in Claim 6 wherein the set of feedlines are spaced above the ground plane and separated therefrom by an air dielectric.

8. Canceled

9. (Original) The antenna as specified in Claim 1 further comprising at least one cable extending across said lower surface and coupled to the set of striplines.

10. (Currently Amended) An antenna array comprised of a plurality of antennas, each antenna comprising:

a ground plane having an upper surface and an opposing lower surface, each of the ground planes having bent edges adapted to control a lateral beam lobe of the respective antenna;

a plurality of dipoles extending outwardly from the upper surface;

a set of feedlines disposed proximate the upper surface and coupled to the dipoles;

a set of striplines disposed upon the lower surface and coupled through the ground plane to the set of feedlines; and

at least one sliding dielectric member adjustably disposed proximate a portion of the set of striplines and adapted to shift a phase velocity of a signal communicating therepast to the dipoles.

11. (Original) The antenna array as specified in Claim 10 wherein each said antenna is coupled to another adjacent said antenna such that the dipoles of each antenna extend outwardly, and the respective ground planes of each antenna generally face inwardly towards one another.

12. (Original) The antenna array as specified in Claim 11 wherein the coupled antennas collectively form a multi-sector antenna array extending 360°.

13. (Original) The antenna array as specified in Claim 12 comprising 3 of the antennas, each of the antennas covering generally a 120° sector.

14. (Original) The antenna array as specified in Claim 10 further comprising a plurality of adjustment members, one said adjustment member being coupled to each of the sliding dielectric members of each of the antennas, the adjustment members adapted to adjust a beamtilt of the respective antenna.

15. Canceled

16. (Currently Amended) The antenna array as specified in Claim 10 ~~15~~ wherein the ground plane edges each have at least 2 bends.

17. (Currently Amended) The antenna array as specified in Claim 10 ~~15~~ wherein the antennas are physically coupled to one another along their respective bent edges, but are electrically isolated from one another by an electrically non-conductive member.

18. (Original) The antenna array as specified in Claim 10 wherein the dipoles are configured in sets, each of the dipole sets having a single respective feedline coupled thereto.

19. Canceled

20. (Currently Amended) The antenna array as specified in Claim 2 wherein the dipoles are configured in pairs of orthogonal dipoles and the ~~first~~ set of feedlines comprise a divider.

21. (Original) The antenna array as specified in Claim 20 further comprising an electrically non-conductive member disposed between the ground plane and the set of striplines.

22. Canceled

23. (Currently Amended) The antenna array as specified in Claim 31 ~~22~~ wherein the set of feedlines are spaced above the ground plane and separated therefrom by an air dielectric.

24. Canceled

25. (Original) The antenna as specified in Claim 10 further comprising at least one cable extending across said lower surface and coupled to the set of striplines.
26. (Original) The antenna as specified in Claim 10 further comprising a radome encompassing the antenna, the radome including at least one metal portion thereon.
27. (Original) The antenna as specified in Claim 26 wherein the metal portion is a electrically conductive paint.
28. (Original) The antenna as specified in Claim 10 wherein the antenna array is configured as an omnidirectional antenna.
29. (New) An antenna, comprising:
- a ground plane having an upper surface and an opposing lower surface;
 - a plurality of dipoles extending outwardly from the upper surface;
 - a set of feedlines disposed proximate the upper surface and coupled to the dipoles;
 - a set of striplines disposed upon the lower surface and coupled through the ground plane to the set of feedlines; and
 - at least one sliding dielectric member adjustably disposed proximate a portion of the set of striplines and adapted to shift a phase velocity of a signal communicating therepast to the dipoles;
 - an electrically non-conductive member disposed between the ground plane and the set of striplines; and
 - a second ground plane disposed on the electrically non-conductive member and opposing the set of striplines.

30. (New) An antenna array comprised of a plurality of antennas, each antenna comprising:

a ground plane having an upper surface and an opposing lower surface;

a plurality of dipoles extending outwardly from the upper surface;

a set of feedlines disposed proximate the upper surface and coupled to the dipoles;

a set of striplines disposed upon the lower surface and coupled through the ground plane to the set of feedlines, wherein the set of striplines have a plurality of serpentine portions each having a respective said dielectric member slidably disposed thereupon; and

at least one sliding dielectric member adjustably disposed proximate a portion of the set of striplines and adapted to shift a phase velocity of a signal communicating therepast to the dipoles.

31. (New) An antenna array comprised of a plurality of antennas, each antenna comprising:

a ground plane having an upper surface and an opposing lower surface;

a plurality of dipoles extending outwardly from the upper surface;

a set of feedlines disposed proximate the upper surface and coupled to the dipoles;

a set of striplines disposed upon the lower surface and coupled through the ground plane to the set of feedlines, wherein the set of striplines are disposed on the electrically non-conductive member;

at least one sliding dielectric member adjustably disposed proximate a portion of the set of striplines and adapted to shift a phase velocity of a signal communicating therepast to the dipoles; and

a second ground plane disposed on the electrically non-conductive member and opposing the set of striplines.